AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

- 1) (currently amended) A battery for a PEA, comprising:
 - a) an anode;
 - b) a cathode;
 - c) an electrolyte separator between said anode and said cathode, said electrolyte separator including polyamide polyimide and solvent present in a range from about 10% to about 40% by weight of said electrolyte.
- 2) (original) A battery as defined in claim 1, wherein the portable electronic appliance is selected in the group consisting of cell phone, PDA, laptop computer, smart card, camcorder and digital camera.
- 3) (original) A battery as defined in claim 2, wherein said electrolyte separator includes solvent in the range from about 15% to about 30% by weight of said electrolyte.
- 4) (original) A battery as defined in claim 3, wherein said electrolyte separator includes solvent in the range from about 20% to about 25% by weight of said electrolyte.
- 5) (original) A battery as defined in claim 2, wherein said battery has a weight less than 500 grams.

- 6) (currently amended) A battery as defined in claim 5, wherein said battery has a weigh weight less than 250 grams.
- 7) (original) A battery as defined in claim 2, wherein said anode contains material capable of intercalating lithium ions.
- 8) (original) A battery as defined in claim 7, wherein said anode includes a current collector.
- 9) (currently amended) A battery as defined in claim 2, wherein said solvent is selected from the group consisting of N,N-methylpyrolidinone (NMP), gamma-butyrolactone, and sulfamides of formula; formula R₁R₂N-SO₂-NR₃R₄, in which R₁, R₂, R₃ and R₄ are alkyls having between 1 and 6 carbon atoms and/or oxyalkyls having between 1 and 6 carbon atoms, and combinations thereof.
- 10)(original) A battery as defined in claim 2, wherein said cathode includes active material.
- 11)(currently amended) A battery as defined in claim 10, wherein said active material is selected from the group consisting of LiCoO₂; LiMnO₂; LiNiO₂; Li₄Ti₅O₁₂; LiV₃O₈; V₆O₁₃; V₂O₅; and LiMn₂O₄ and combinations thereof.
- 12)(original) A battery as defined in claim 10, wherein said cathode includes an electronic conductive filler.
- 13)(original) A battery as defined in claim 12, wherein said cathode includes an ionically conductive electrolyte polymer binder.

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- 14)(original) A battery as defined in claim 2, wherein said electrolyte separator comprises an alkali metal salt.
- 15)(original) A battery as defined in claim 14, wherein said alkali metal salt is selected from the group consisting of LiPF₆, LiBF₄, LiSO₃CF₃, LiClO₄, LiSCN and combinations thereof.
- 16)(currently amended) A method for manufacturing a battery for a PEA, comprising:
 - a) preparing an electrolyte separator including polyamide polyimide and solvent present in a range from about 10% to about 40% by weight of said electrolyte;
 - b) using said electrolyte separator to assemble a cell in which said electrolyte separator is located between a cathode and an anode.
- 17) (original) A method as defined in claim 16, comprising charging said battery.